CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-4548

To,

Date: 15-05-2021

ASSISTANT EXECUTIVE ENGINEER
PROJECT SUB DIVISION
BBMP
BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of **"CONSTRUCTION OF SCHOOL BUILDING AT SINGAPURA IN WARD NO.11."**

Ref: 1. Work Order No: EE(Project)/YnkZone/Wo/85/2020-21

2. Job code: 011-20-000074

We are herewith forwarding to Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097. 1st and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.39,34,960 /- (Rs. Thirty Nine Lakhs Thirty Four Thousand Nine Hundred and Sixty Rupees Only).

Thanking you,

Yours faithfully,

For Civil Pro

R KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO

Assistant Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro
Sig.....
Date.....
BANGALORE

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QC ABSTRACT

NAME OF WORK: Construction of School building at Singapura in Ward No.11

S.No	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	14.43	4	4
7	RMC(M20)	Compressive Strength(7days and 28days)	5 set /31-100 cum	84.0	10	10

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-01-25-32** **Date: 17-12-20**
Project Name	:	Construction of School building at Singapura in Ward No.11
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.
Customer's Reference	:	EE(Project)/YnkZone/Wo/85/2020-21
Date of Receipt	:	14-12-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	15-12-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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BBMP, Bangalore - 92

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-01-25-32** **Date: 12-01-21**
Project Name	:	Construction of School building at Singapura in Ward No.11
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.
Customer's Reference	:	EE(Project)/YnkZone/Wo/85/2020-21
Date of Receipt	:	14-12-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	15-12-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-01-25-32** **Date: 18-12-20**
Project Name	:	Construction of School building at Singapura in Ward No.11
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.
Customer's Reference	:	EE(Project)/YnkZone/Wo/85/2020-21
Date of Receipt	:	14-12-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-12-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 35% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	15.3	
3	Specific Gravity	2.64	-
4	Bulk Density(Loose) (Kg/lt)	1.41	-
5	Bulk Density(Compacted) (Kg/lt)	1.47	-
6	Water Absorption(%)	0.33	-

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-01-25-32** **Date: 17-12-20**
Project Name	:	Construction of School building at Singapura in Ward No.11
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.
Customer Reference	:	EE(Project)/YnkZone/Wo/85/2020-21
Date of Receipt	:	14-12-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-12-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-01-25-32 Date: 17-12-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	-
4	Bulk Density(Loose) (Kg/l)	1.43	-
5	Bulk Density(Compacted) (Kg/l)	1.49	-
6	Water Absorption(%)	0.23	-
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-01-25-32 **Date: 17-12-20**

Project Name : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 14-12-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 15-12-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-01-25-32** **Date: 17-12-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.86	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : CP-2022-01-25-32 **Date: 16-12-20**

Project Name : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura.

Customer's Reference : EE(Project)/Ynk/Zone/Wo/85/2020-21

Date of Receipt : 14-12-20

Sample Type : Indus

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 15-12-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.392	508	646	21.0%	Satisfactory	Satisfactory
2	Indus	Fe500	12	0.885	528	672	20.0%	Satisfactory	Satisfactory
3	Indus	Fe500	16	1.582	548	685	19.0%	Satisfactory	Satisfactory
4	Indus	Fe500	20	2.478	572	692	19.0%	Satisfactory	Satisfactory
5	Indus	Fe500	25	3.471	597	701	18.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-25-32 Date: 04/01/2021

Project Name : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 30-12-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/12/2020	04/01/2021	149.67 X 150.39 X 150.21	22509	8.331	271.0	12.0	12.2
2	PCC	M15	28/12/2020	04/01/2021	151.61 X 150.01 X 149.94	22744	8.463	275.6	12.1	
3	PCC	M15	28/12/2020	04/01/2021	149.68 X 151.24 X 151.41	22638	8.442	278.4	12.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-25-32 **Date: 25/01/2021**

Project Name : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 30-12-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/12/2020	25/01/2021	149.45 X 150.87 X 151.39	22549	8.248	396.3	17.6	17.4
2	PCC	M15	28/12/2020	25/01/2021	149.02 X 150.34 X 151.15	22404	8.488	392.3	17.5	
3	PCC	M15	28/12/2020	25/01/2021	151.46 X 150.33 X 150.78	22768	8.451	391.3	17.2	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-25-32

Date: 04/01/2021

Project Name : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 30-12-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/12/2020	04/01/2021	149.39 X 150.26 X 149.36	22448	8.600	284.5	12.7	12.5
2	PCC	M15	28/12/2020	04/01/2021	149.69 X 150.50 X 150.07	22529	8.154	275.8	12.2	
3	PCC	M15	28/12/2020	04/01/2021	151.87 X 151.77 X 150.00	23050	8.856	292.6	12.7	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-25-32 **Date: 25/01/2021**

Project Name : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 30-12-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/12/2020	25/01/2021	150.96 X 150.63 X 151.17	22738	8.941	397.6	17.5	17.3
2	PCC	M15	28/12/2020	25/01/2021	149.19 X 150.56 X 151.23	22462	8.347	388.3	17.3	
3	PCC	M15	28/12/2020	25/01/2021	151.72 X 151.66 X 149.03	23009	9.093	397.1	17.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2022-01-25-32 **Date: 12/01/2021**
Name of the Work	:	Construction of School building at Singapura in Ward No.11
Project Name & Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.
Customer's Reference	:	EE(Project)/YnkZone/Wo/85/2020-21
Date of Receipt	:	07-01-21
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	05/01/2021	12/01/2021	149.26 X 149.56 X 150.13	22323	8.310	281.0	12.6	12.7
2	Footing Concrete	M20	05/01/2021	12/01/2021	150.86 X 150.98 X 150.06	22776	9.096	294.0	12.9	
3	Footing Concrete	M20	05/01/2021	12/01/2021	150.01 X 149.27 X 150.47	22393	8.980	282.3	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-01-25-32

Date: 02/02/2021

: Construction of School building at Singapura in Ward No.11

: Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 07-01-21

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	05/01/2021	02/02/2021	151.10 X 149.12 X 149.27	22533	8.852	522.2	23.2	23.4
2	Footing Concrete	M20	05/01/2021	02/02/2021	151.51 X 149.34 X 149.39	22626	8.328	526.6	23.3	
3	Footing Concrete	M20	05/01/2021	02/02/2021	151.89 X 149.41 X 149.53	22694	8.356	539.3	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-25-32
Date: 12/01/2021
Project Name : Construction of School building at Singapura in Ward No.11
Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.
Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21
Date of Receipt : 07-01-21
Customer ID : Footing Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	05/01/2021	12/01/2021	150.18 X 149.01 X 151.73	22378	8.817	389.4	17.4	17.5
2	Footing Concrete	M20	05/01/2021	12/01/2021	149.53 X 150.49 X 151.40	22503	8.821	400.6	17.8	
3	Footing Concrete	M20	05/01/2021	12/01/2021	150.26 X 149.64 X 149.47	22485	8.785	391.0	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-25-32 **Date: 02/02/2021**

Project Name : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 07-01-21

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	05/01/2021	02/02/2021	151.54 X 150.74 X 149.16	22843	8.705	523.4	22.9	23.1
2	Footing Concrete	M20	05/01/2021	02/02/2021	150.19 X 151.73 X 150.55	22788	8.968	533.5	23.4	
3	Footing Concrete	M20	05/01/2021	02/02/2021	150.49 X 149.18 X 151.01	22450	8.136	514.5	22.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-25-32

Date: 04/02/2021

Project Name : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 30-01-21

Customer ID : Column Concrete Plinth Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/02/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete Plinth Beam	M20	28/01/2021	04/02/2021	149.61 X 149.19 X 151.62	22320	8.583	393.2	17.6	17.7
2	Column Concrete Plinth Beam	M20	28/01/2021	04/02/2021	151.98 X 149.72 X 149.03	22754	8.207	408.1	17.9	
3	Column Concrete Plinth Beam	M20	28/01/2021	04/02/2021	150.17 X 150.80 X 150.87	22646	8.171	394.5	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-25-32

Date: 25/02/2021

Project Name : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 30-01-21

Customer ID : Column Concrete Plinth Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete Plinth Beam	M20	28/01/2021	25/02/2021	151.25 X 151.11 X 151.72	22857	8.662	536.1	23.5	23.3
2	Column Concrete Plinth Beam	M20	28/01/2021	25/02/2021	151.43 X 149.57 X 151.46	22649	8.834	529.0	23.4	
3	Column Concrete Plinth Beam	M20	28/01/2021	25/02/2021	150.30 X 151.19 X 150.81	22723	9.023	521.9	23.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-25-32 Date: 04/02/2021

Project Name : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 30-01-21

Customer ID : Column Concrete Plinth Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete Plinth Beam	M20	28/01/2021	04/02/2021	150.38 X 151.99 X 151.64	22855	8.206	389.4	17.0	17.1
2	Column Concrete Plinth Beam	M20	28/01/2021	04/02/2021	150.79 X 150.23 X 151.95	22654	8.737	390.1	17.2	
3	Column Concrete Plinth Beam	M20	28/01/2021	04/02/2021	150.39 X 149.31 X 150.49	22456	8.264	383.9	17.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-01-25-32

Date: 25/02/2021

Project Name : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 30-01-21

Customer ID : Column Concrete Plinth Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete Plinth Beam	M20	28/01/2021	25/02/2021	149.13 X 150.84 X 150.22	22494	8.976	514.0	22.9	23.3
2	Column Concrete Plinth Beam	M20	28/01/2021	25/02/2021	149.81 X 149.65 X 151.42	22419	8.637	532.4	23.7	
3	Column Concrete Plinth Beam	M20	28/01/2021	25/02/2021	151.70 X 149.87 X 151.09	22736	8.545	527.9	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-01-25-32 **Date: 09/02/2021**

Name of Work : Construction of School building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 04-02-21

Customer ID : Plinth Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam	M20	02/02/2021	09/02/2021	151.37 X 149.02 X 149.29	22558	9.069	390.2	17.3	17.4
2	Plinth Beam	M20	02/02/2021	09/02/2021	149.66 X 149.63 X 149.41	22393	9.020	399.3	17.8	
3	Plinth Beam	M20	02/02/2021	09/02/2021	149.08 X 150.23 X 150.70	22396	8.703	381.7	17.0	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-01-25-32 **Date: 02/03/2021**

: Construction of School building at Singapura in Ward No.11

: Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097.

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 04-02-21

Customer ID : Plinth Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam	M20	02/02/2021	02/03/2021	151.74 X 149.93 X 149.04	22751	8.300	523.1	23.0	23.5
2	Plinth Beam	M20	02/02/2021	02/03/2021	149.41 X 151.21 X 149.24	22592	9.053	542.3	24.0	
3	Plinth Beam	M20	02/02/2021	02/03/2021	149.11 X 151.39 X 149.24	22574	8.676	529.0	23.4	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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